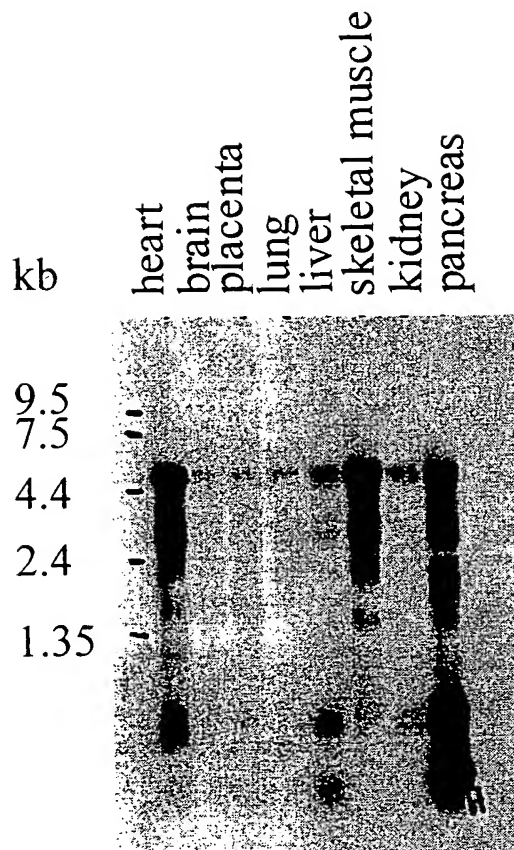
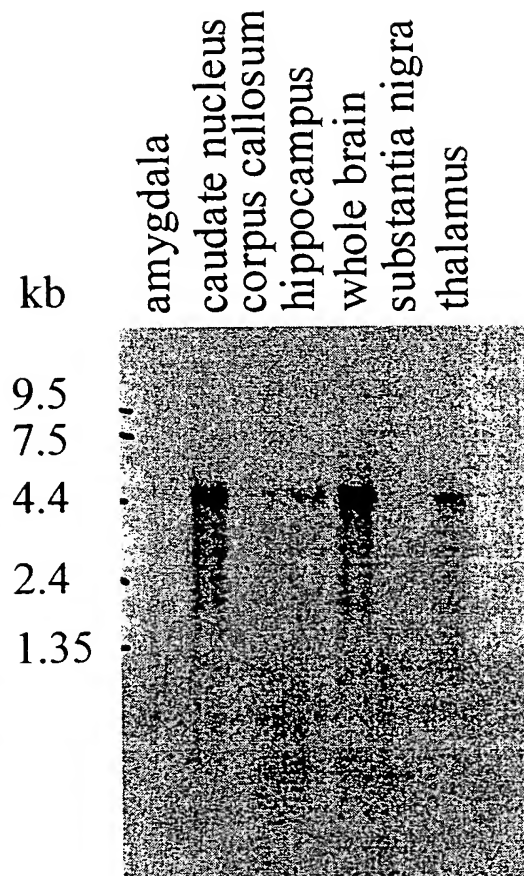


A.**B.**

Figs. 1A and 1B

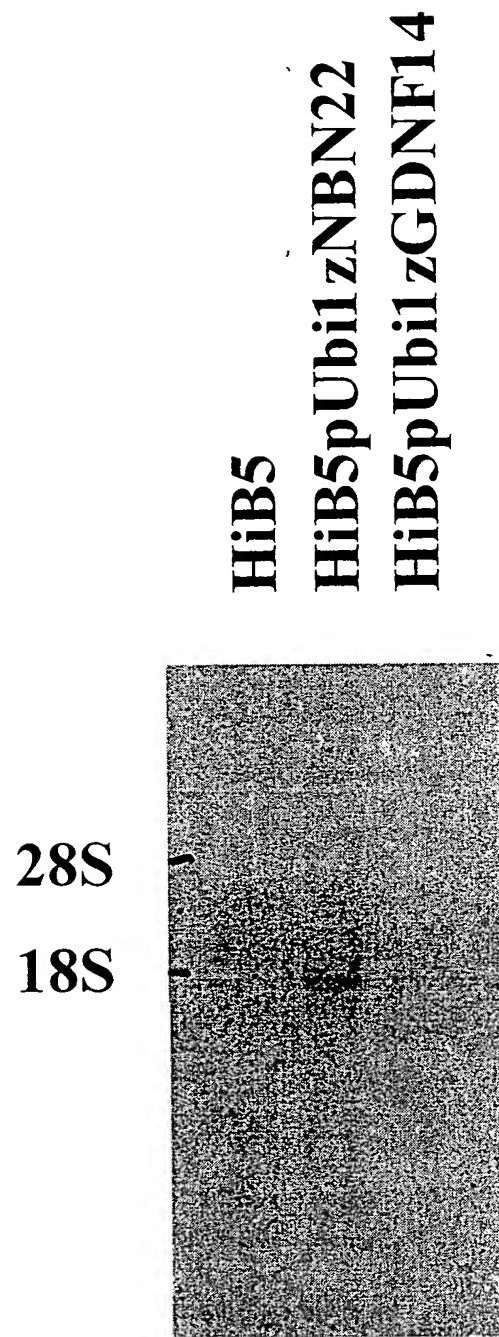


Fig. 2

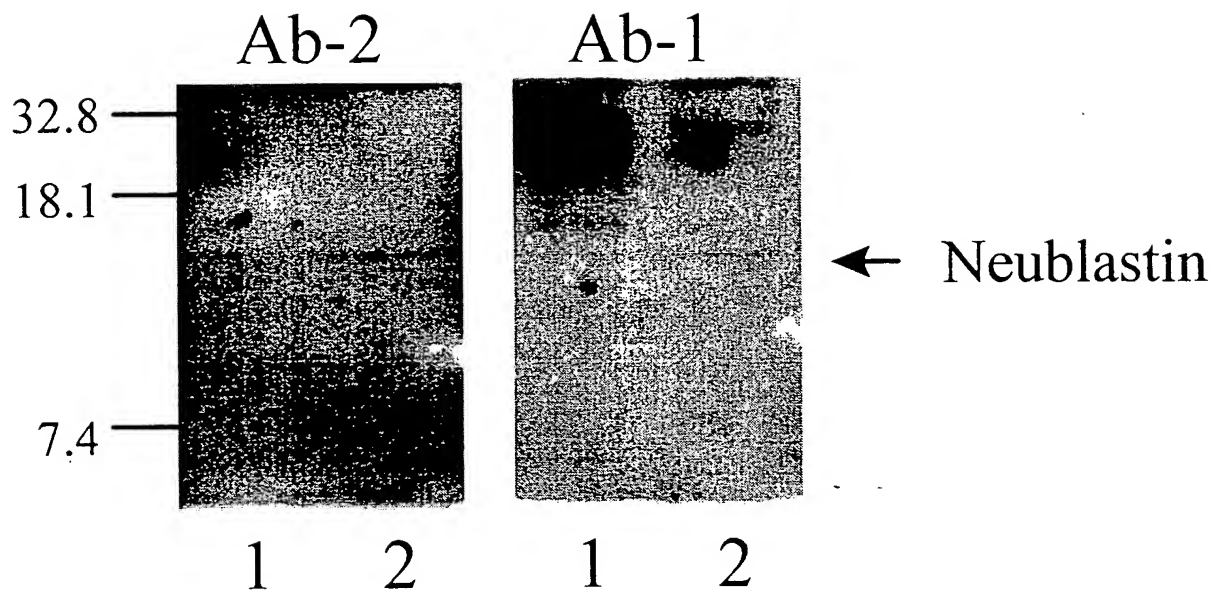
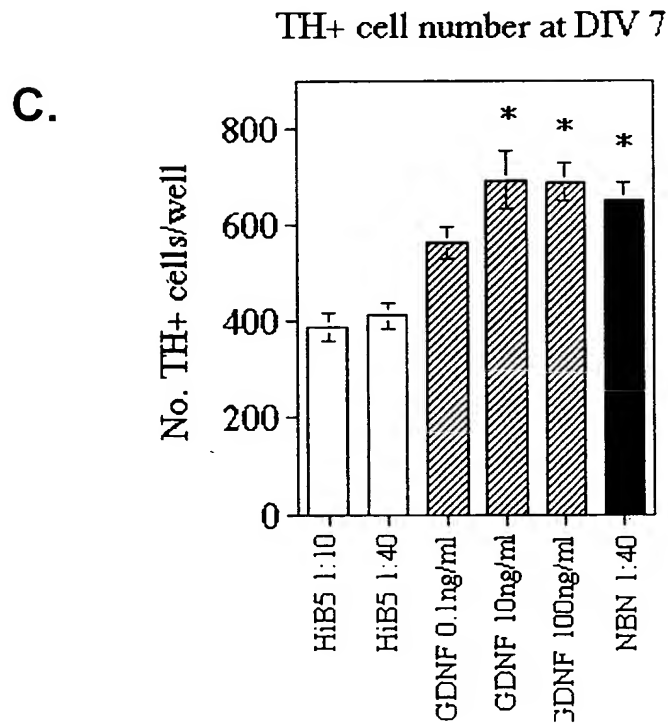
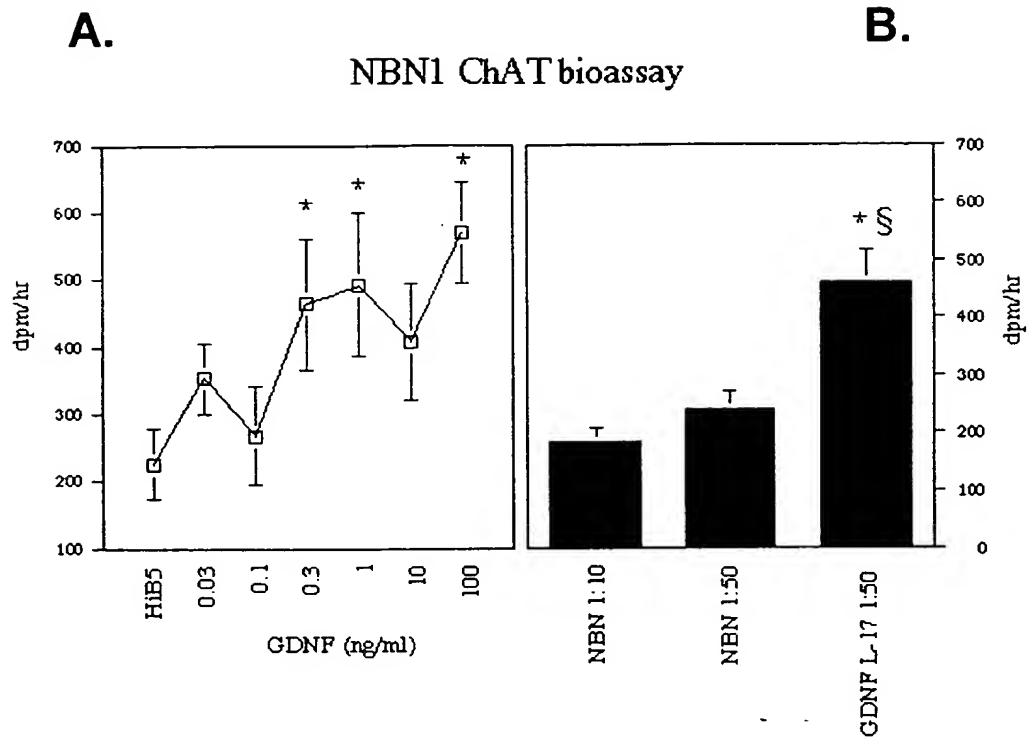
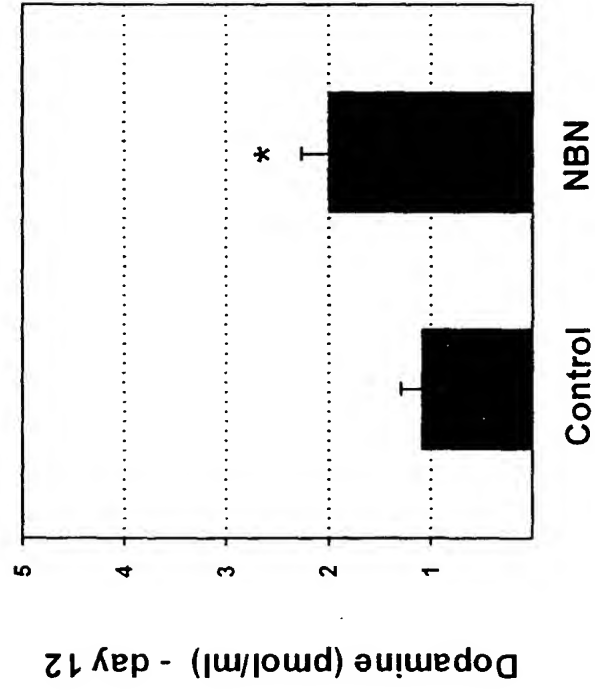


Fig. 3

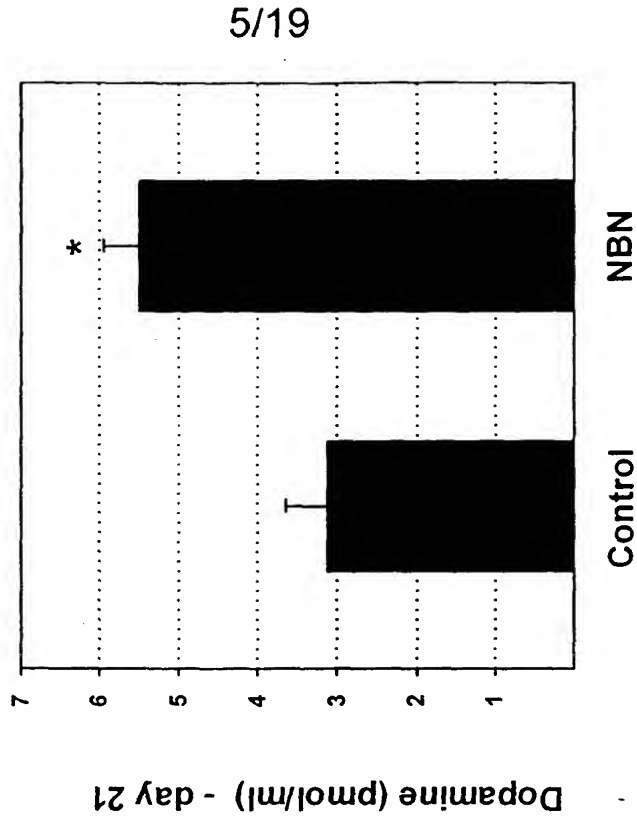


Figs. 4A, 4B and 4C

A.



B.



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Figs. 5A and 5B

C.

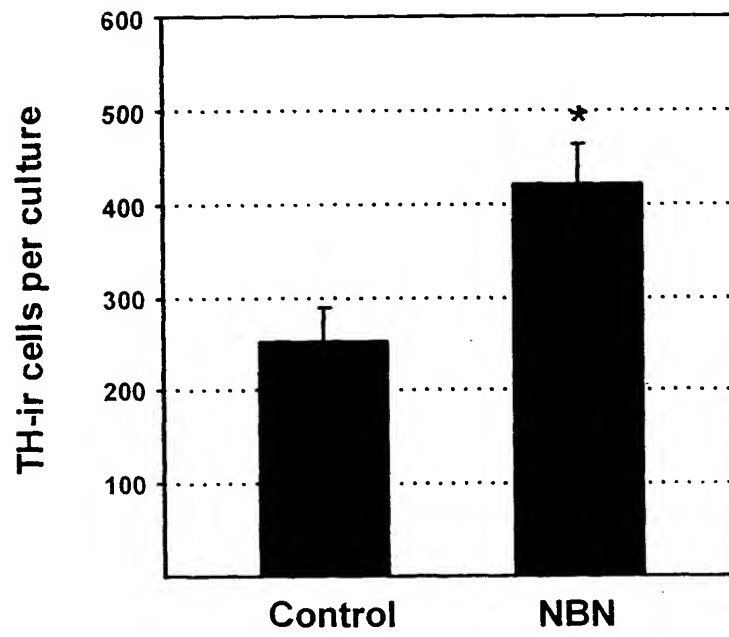


Fig. 5C

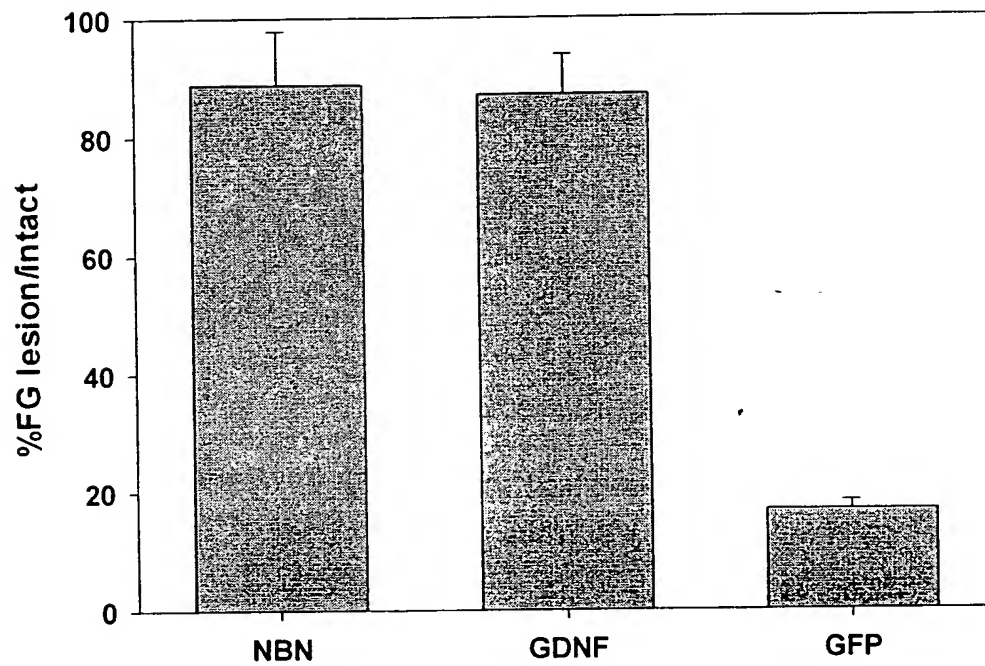
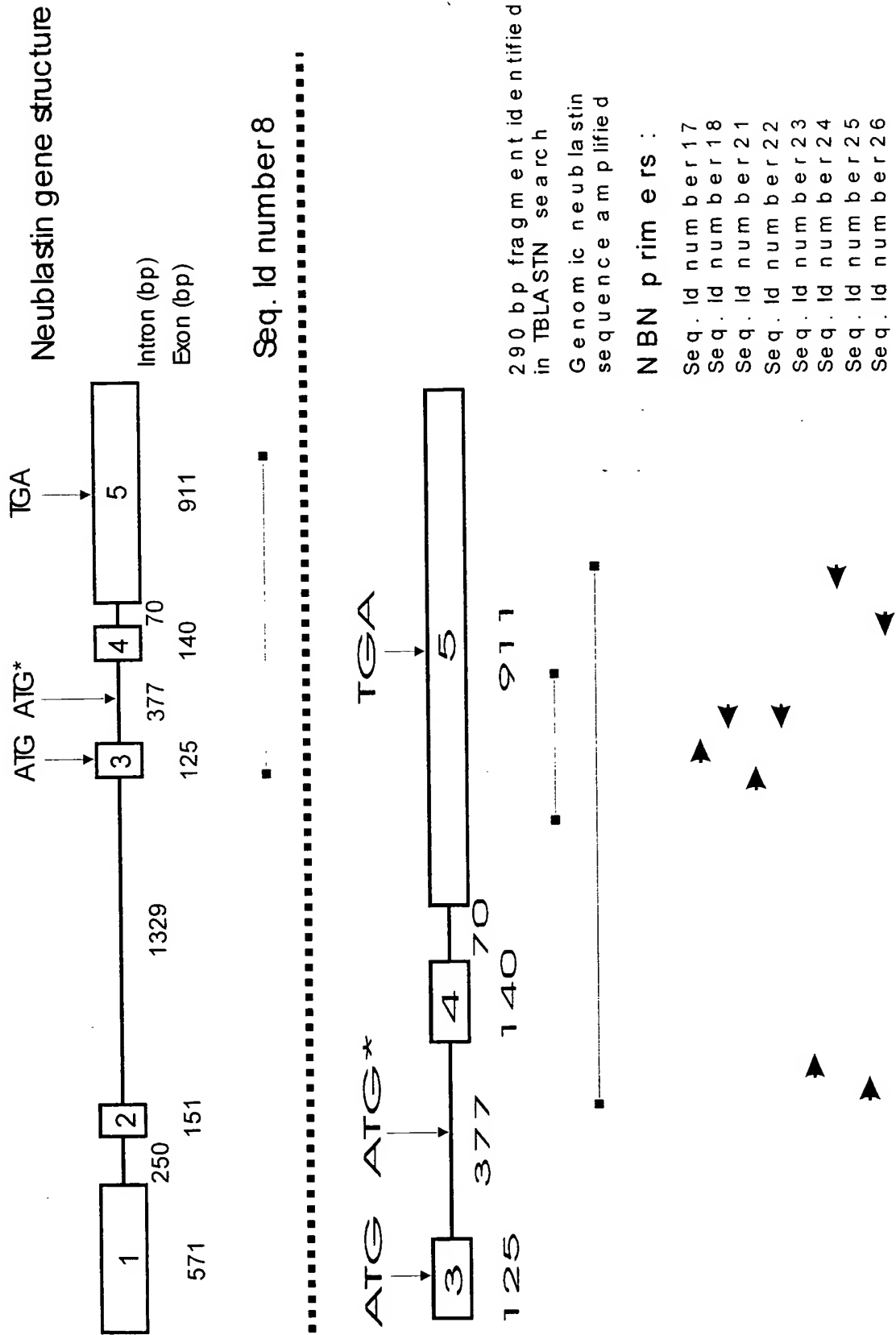
In vivo effects of NBN on nigral dopamine neurons**Fig. 6**

FIG. 7



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Alignment of Neublartin primers used in Rapid-Screen with
homologous regions in other GDNF ligands

5'-C CTG GCC AGC CTA CTG GG-3'	SEQ ID No 17
G CTG GCC CGG CTG CAG GG	persephin
G CTG CGA CGA CTG CGC CA	neurturin
A TTG AAA AAC TTA TCC AG	GDNF

5'-AA GGA GAC CGC	TTC GTA GCG-3'	SEQ ID No 18
TA GGC CAC GTC	GGT GTA GCG	persephin
AA GGA CAC CTC GTC	CTC GTA GGC	neurturin
AA CGA CAG GTC ATC	ATC AAA GGC	GDNF

conserved nucleotides shown in **bold**

Fig. 8

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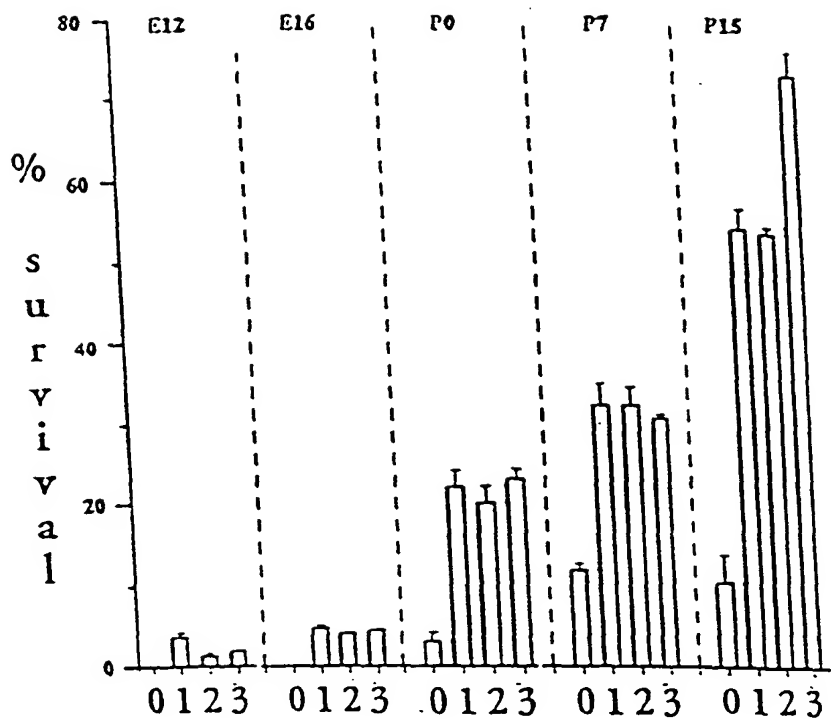
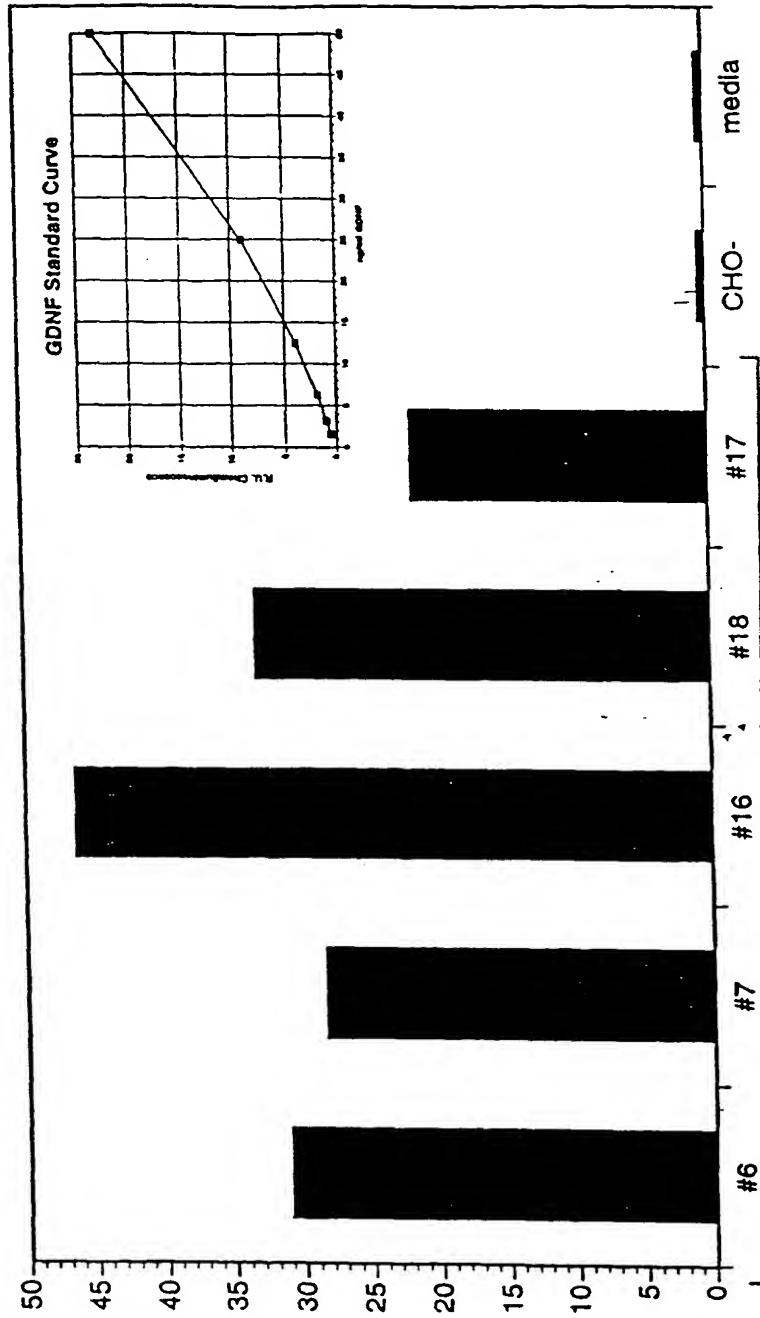


Fig. 9

Estimated Neublabin Concentration [ng/ml]



CHO Neublabin Clones

Fig. 10

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Relative Chemiluminescence Units (R.U.)

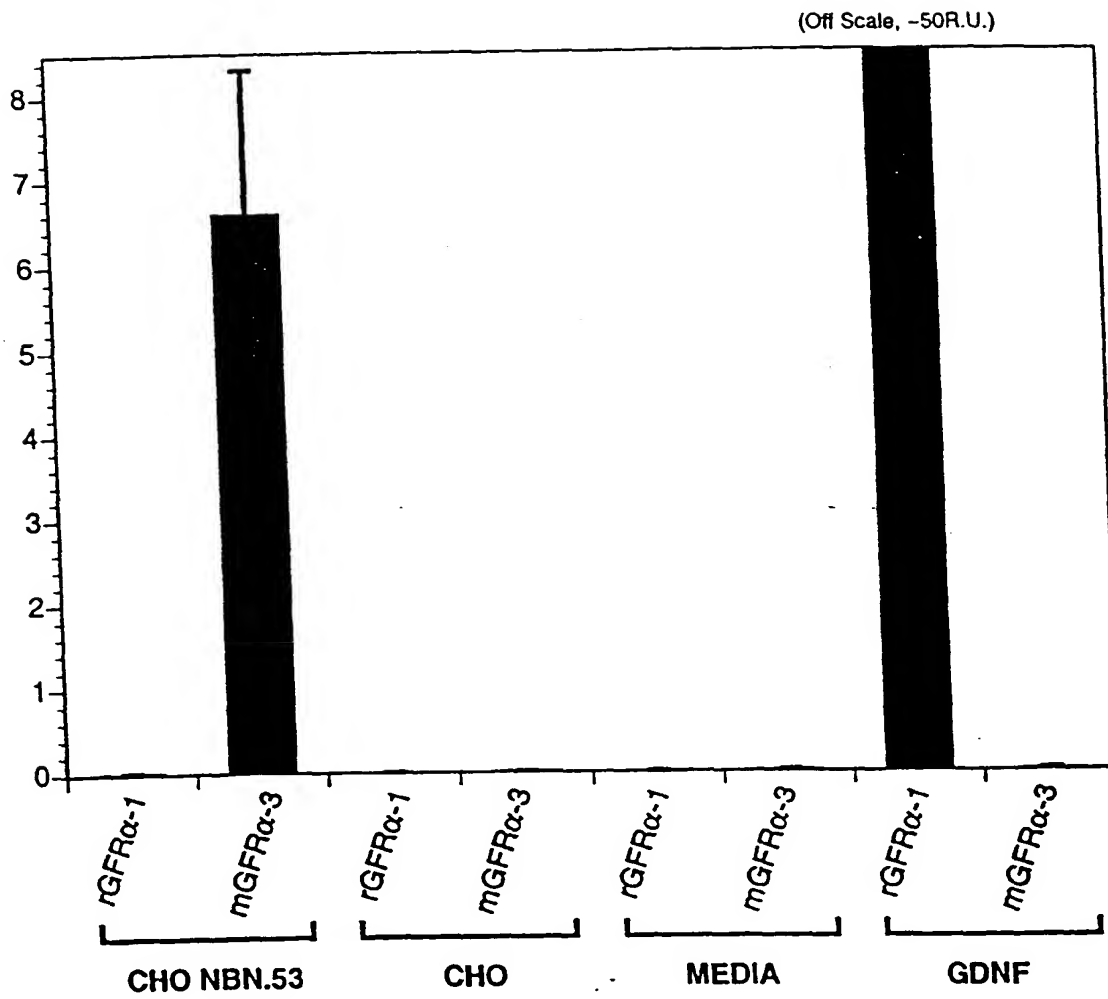
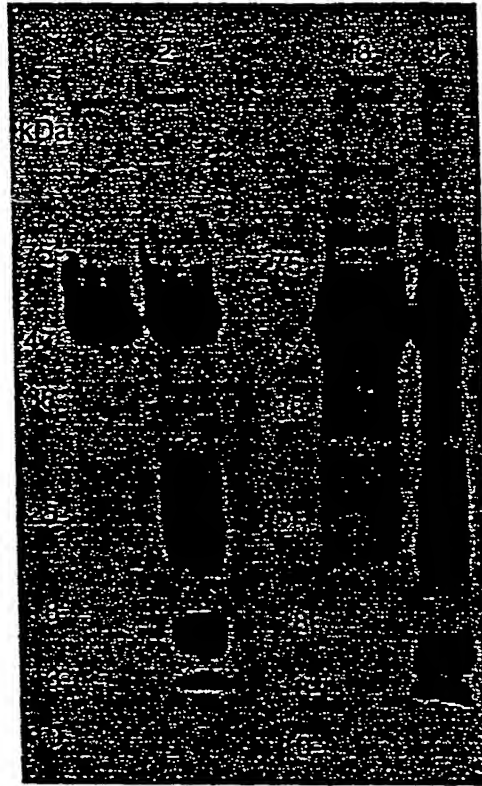


Fig. 11

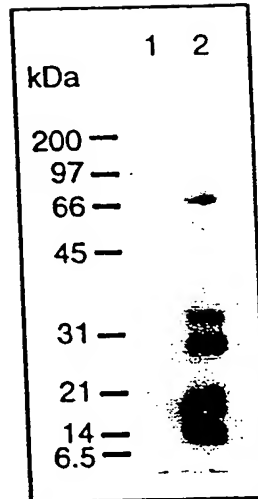
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1. Control medium stained with R30 anti-peptide antibody
2. Neublastin containing conditioned medium stained with R30 anti-peptide antibody
3. Control medium stained with R31 anti-peptide antibody
4. Neublastin containing conditioned medium stained with R31 anti-peptide antibody

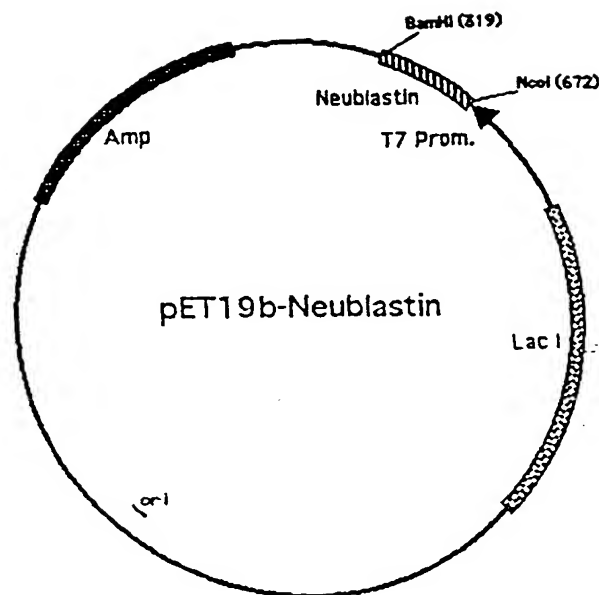
Fig. 12

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Extraction of neublastin by affinity-binding on RETL3-Ig
Lane 1: bound from CHO control conditioned media
Lane 2: bound from neublastin overexpressing CHO conditioned media

Fig. 13



Neublastin Syngene

NcoI (318)

```

316 TACCATGGCT GGAGGACCGG GATCTCGTGC TCGTGCAGCA GGAGCAGGTG GCTGTCGTCT
    ATCTTACCGA CCTCCTGGCC CTAGAGCAGC AGCACGTCGT CCTCGTGCAC CACACGCAGA
    1▶ M A G G P G S R A R A A G A R G C R L

376 GCGTTCTCAA CTAGTGCCGG TGCCTGCACT CGGACTGGGA CACCGTTCCG ACGAACTAGT
    CGCAAGAGTT GATCACGGCC ACGCACGTGA GCCTGACCCT GTGGCAAGGC TGCTTGATCA
    19▶ R S Q L V P V R A L G L G H R S D E L V

436 ACGTTTTCGT TTTTGTTCAG GATCTTGTGC TCGTGCACGT TCTCCGCATG ATCTATCTCT
    TGCAAAAGCA AAAACAAGTC CTAGAACAGC AGCACGTGCA AGAGGCGTAC TAGATAGAGA
    39▶ R F R F C S G S C R R A R S P H D L S L

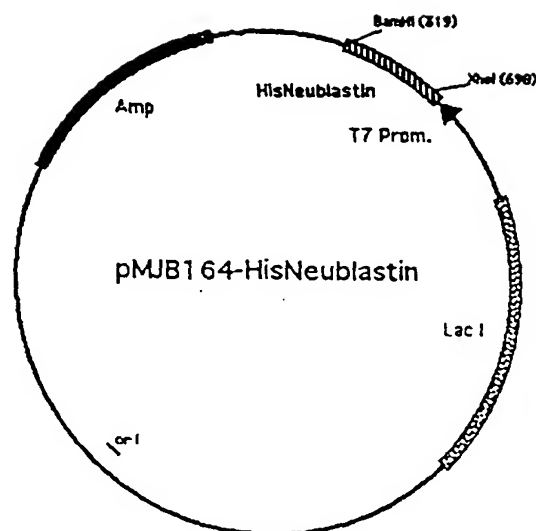
496 AGCATCTCTA CTAGGAGCCG GAGCACTAAG ACCGCCGCCG GGATCTAGAC CTGTATCTCA
    TCGTAGAGAT GATCCTCGGC CTCGTGATTC TGGCGGCGGC CCTAGATCTG GACATAGAGT
    59▶ A S L L G A G A L R P P P G S R P V S Q

556 ACCTTGTTGT AGACCTACTA GATACGAAGC AGTATCTTTC ATGGACGTAA ACTCTACATG
    TGAACAACA TCTGGATGAT CTATGCTTCG TCATAGAAAG TACCTGCATT TGAGATGTAC
    79▶ P C C R P T R Y E A V S F M D V N S T W

                                     BamHI (671)
616 GAGAACCGTA GATAGACTAT CTGCAACCGC ATGTGGCTGT CTAGGATGAT AATAGGGATC
    CTCTTGGCAT CTATCTGATA GACGTTGGCG TACACCGACA GATCCTACTA TTATCCCTAG
    99▶ R T V D R L S A T A C G C L G . . .

676 CGGCT
    GCCGA
  
```

Fig. 14



HisNeublabin

XhoI (340)

301 TACCATGGGC CATCATCATC ATCATCATCA TCATCATCAC TCGAGCGGCC ATATCGACGA
ATCTTACCCG GTAGTAGTAG TAGTAGTAGT AGTAGTAGTG AGCTCGCCGG TATAGCTGCT
1 M G H H H H H H H H H S S G H I D D

361 CGACGACAAG GCTGGAGGAC CGGGATCTCG TGCTCGTGCA GCAGGAGCAC GTGGCTGTCT
3CTGCTGTTT CGACCTCCTG GCCCTAGAGC ACGAGCACGT CGTCCTCGTG CACCGACAGC
19 D D K A G G P G S R A R A A G A R G C R

421 TCTGCGTTCT CAACTAGTGC CGGTGCGTGC ACTCGGACTG GGACACCGTT CCGACGAACT
AGACGCAAGA GTTGATCAGC GCCACGCACG TGAGCCTGAC CCTGTGGCAA GGCTGCTTGA
39 L R S Q L V P V R A L G L G H R S D E L

481 AGTACGTTTT CGTTTTTGT CAGGATCTTG TCGTCGTGCA CGTTCTCCGC ATGATCTATC
TCATGCAAAA GCAAAAACAA GTCCTAGAAC AGCAGCACGT GCAAGAGGCG TACTAGATAG
59 V R F R F C S G S C R R A R S P H D L S

541 TCTAGCATCT CTA TAGGAG CCGGAGCACT AAGACCGCCG CCGGGATCTA GACCTGTATC
AGATCGTAGA GATGATCCTC GGCCTCGTGA TTCTGGCGGC GGCCCTAGAT CTGGACATAG
79 L A S L L G A G A L R P P P G S R P V S

601 TCAACCTTGT TGTAGACCTA CTAGATACGA AGCAGTATCT TTCATGGACG TAAACTCTAC
AGTTGGAACA ACATCTGGAT GATCTATGCT TCGTCATAGA AAGTACCTGC ATTTGAGATG
99 Q P C C R P T R Y E A V S F M D V N S T

BamHI (719)

661 ATGGAGAACC GTAGATAGAC TATCTGCAAC CGCATGTGGC TGTCTAGGAT GATAATAGGG
TACCTCTTGG CATCTATCTG ATAGACGTTG GCGTACACCG ACAGATCCTA CTATTATCCC
119 W R T V D R L S A T A C G C L G . .

721 ATCCGGCTGC TAACAAAGCC CG
TAGGCCGACG ATTGTTTCGG GC

Fig. 15

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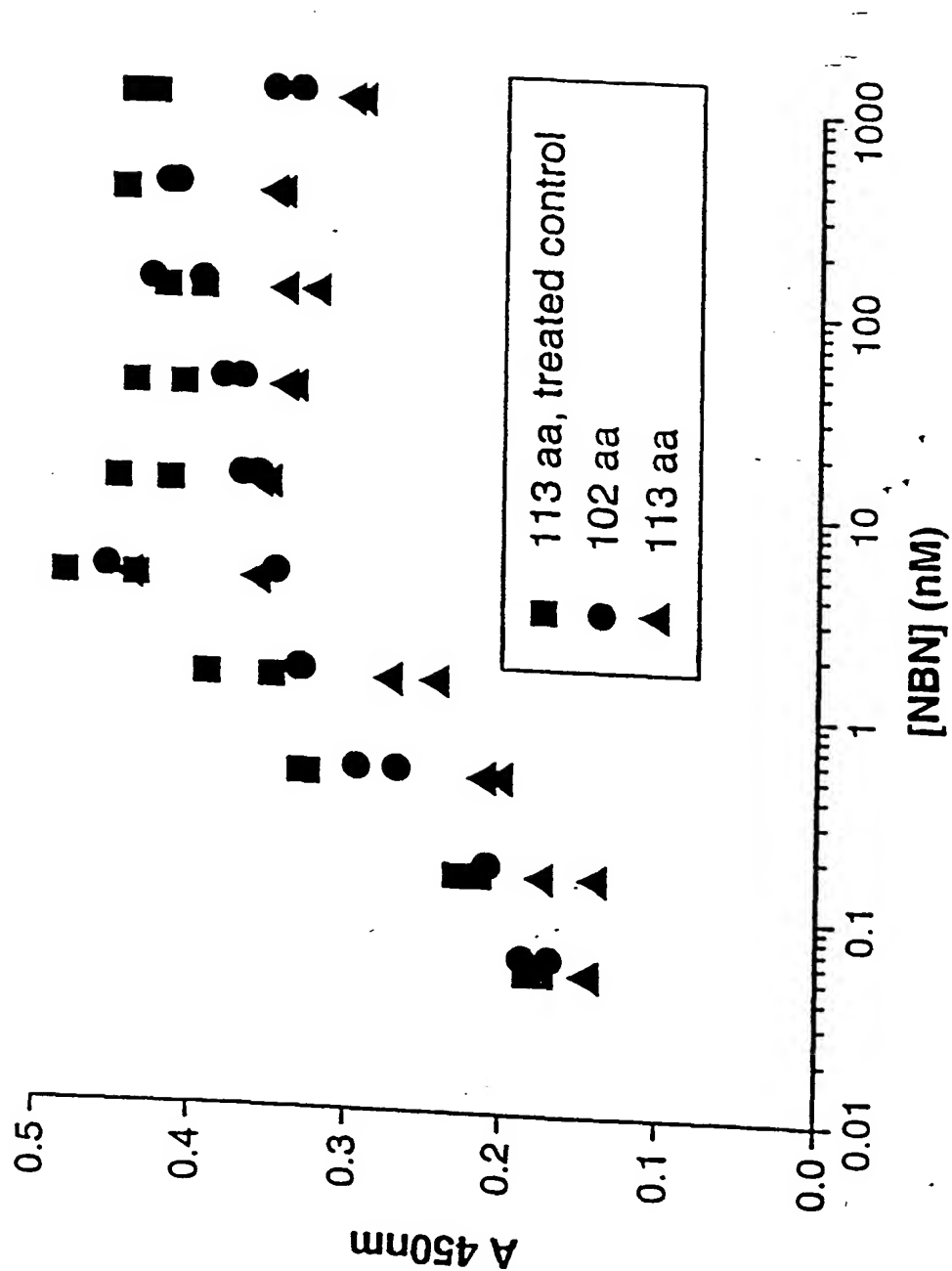


Fig. 16

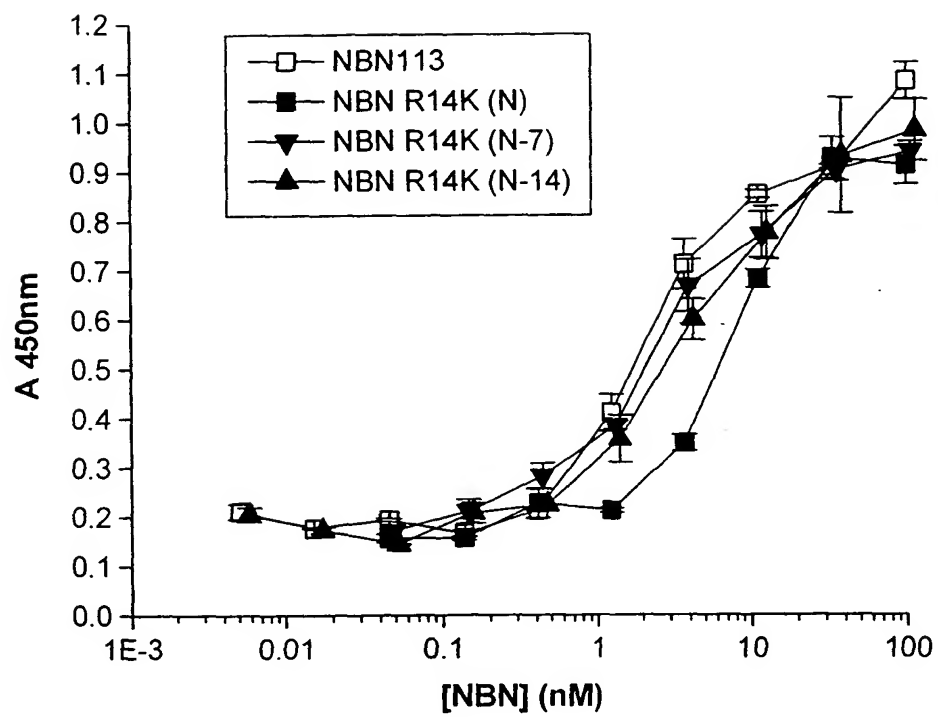


FIG. 17

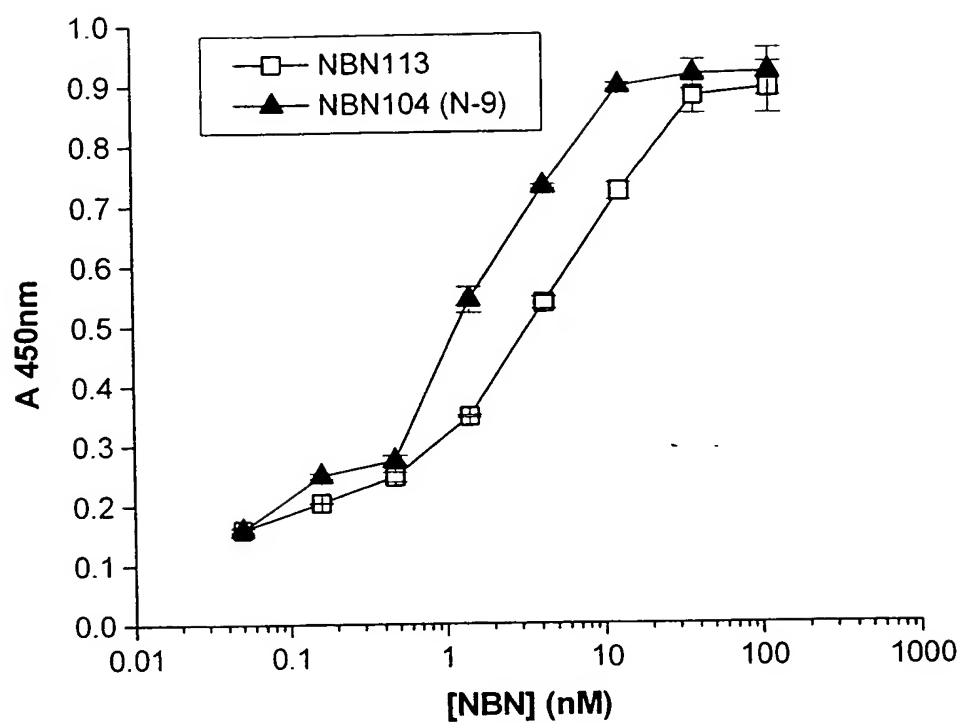


FIG. 18